



#1761  
Andi B  
10.29.02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : Confirmation No. 3378  
Mitsuaki OSHIMA et al. : Docket No. 2000\_1420  
Serial No. 09/686,467 : Group Art Unit 2634  
Filed October 12, 2000 : Examiner A. Le  
COMMUNICATION SYSTEM :

RECEIVED

OCT 28 2002

Technology Center 2800

AMENDMENT

THE COMMISSIONER IS AUTHORIZED  
TO CHARGE ANY DEFICIENCY IN THE  
FEES FOR THIS PAPER TO DEPOSIT  
ACCOUNT NO. 23-0975

Assistant Commissioner for Patents,  
Washington, D.C.

Sir:

In response to the Office Action of April 24, 2002, the period for response to which having been extended by three months to October 24, 2002, please amend the above-identified U.S. patent application as follows:

IN THE CLAIMS:

Please cancel claims 13-21 without prejudice or disclaimer to the subject matter therein.

Please add claims 22-29 as follows:

22. A signal transmission apparatus comprising:  
- a modulator operable to modulate a carrier wave with an input signal to produce a modulated signal, and  
- a transmitter operable to transmit the modulated signal,  
said input signal containing a first data stream including g values of bit patterns and a second data stream, where g is an integer number, and  
the modulated signal having symbols, each of which is representing one of m signal points in a vector space diagram, where m is an integer number and the vector space diagram includes an I axis and a Q axis extending in directions perpendicular to each other.

B1  
WNT